

IBPS PO PRELIMINARY GRAND TEST: IPP-170631 - HINTS AND SOLUTIONS

ANSWER KEY

1	(3)	21	(5)	41	(5)	61	(1)	81	(1)
2	(5)	22	(3)	42	(1)	62	(1)	82	(2)
3	(4)	23	(3)	43	(2)	63	(3)	83	(1)
4	(1)	24	(3)	44	(4)	64	(2)	84	(5)
5	(5)	25	(2)	45	(3)	65	(3)	85	(1)
6	(1)	26	(1)	46	(1)	66	(4)	86	(3)
7	(3)	27	(4)	47	(4)	67	(2)	87	(1)
8	(3)	28	(1)	48	(5)	68	(1)	88	(3)
9	(4)	29	(2)	49	(1)	69	(5)	89	(2)
10	(3)	30	(5)	50	(4)	70	(4)	90	(3)
11	(2)	31	(2)	51	(3)	71	(1)	91	(4)
12	(4)	32	(3)	52	(1)	72	(3)	92	(5)
13	(1)	33	(2)	53	(2)	73	(5)	93	(3)
14	(5)	34	(2)	54	(1)	74	(3)	94	(1)
15	(3)	35	(1)	55	(5)	75	(1)	95	(1)
16	(3)	36	(2)	56	(1)	76	(1)	96	(2)
17	(2)	37	(3)	57	(5)	77	(5)	97	(3)
18	(3)	38	(1)	58	(1)	78	(5)	98	(3)
19	(1)	39	(3)	59	(3)	79	(4)	99	(4)
20	(2)	40	(2)	60	(5)	80	(1)	100	(5)

- 1. (3) Refer to the first few sentences of the third paragraph.
- **2.** (5) None of the given alternatives is correct.
- **3.** (4) Refer to the second half of the third paragraph.
- **4.** (1) None of (A), (B), (C) is correct.
- **5.** (5) None of the alternatives (1), (2), (3), (4) is correct.
- **6.** (1) Refer to the last sentence of the third paragraph.
- 7. (3) The answer can easily be inferred from the passage.
- **8.** (3) Refer to the last sentence of the passage.
- **9.** (4) Only (B) can be inferred from the passage.
- **10.** (3) Refer to the second sentence of the passage.
- **16.** (3) Substitute 'students' for 'student'.
- 17. (2) Substitute 'to' for 'with'.
- **18.** (3) Substitute 'without' for 'unless'.
- 19. (1) Insert 'of' after 'instead'.
- **20.** (2) Delete 'so'.

31. (2) Let CP = 100 100 2.5% loss 7.5% gain 97.5 107.5

10 units = 100 100 units = 1000 SP of radio = $\frac{112.5}{100} \times 1000 = \text{Rs.} 1125$

- - 3. (2) Principal = Rs. 12000
 Rate % = 10%
 Interest would have been received by person in 5 $years = \frac{12000 \times 10 \times 5}{100} = Rs.6000$ Interest received by the person after 3 years = Rs(6000 3320) = Rs 2680.
 By using formula,

Rate % =
$$\frac{2680}{12000} \times \frac{100}{3} = \frac{67}{9} = 7\frac{4}{9}\%$$

- 34. (2) When interest calculated half yearly New rate = $\frac{10}{2}$ = 5%, Time = 2 years

 Effective rate % = 5 + 5 + $\frac{25}{100}$ = 10.25%

 Difference in rate = 10.25% 10% = 0.25%

 According to question

 0.25% = 180

 100% = $\frac{180}{.25}$ × 100 = Rs. 72000
- 35. (1) C.P of wheat = $30 \times 9.5 + 40 \times 8.5 = 285 + 340 = Rs$. 625 SP of wheat = $70 \times 8.9 = Rs$. 623 Loss = CP - SP = 625 - 623 = Rs. 2 Loss



- 36. (2) Milk Water $4\begin{bmatrix}
 17 & : & 3 \\
 7_{\times 3} & : & 1_{\times 3} \\
 21 & : & 3
 \end{bmatrix}$ 17 + 3 = 20 units = 200 $4 = \frac{200}{20} \times 4 = 40 \text{ ltr}$
- 37. (3) $A \rightarrow 20$ $B \rightarrow 30$ 2 units/dayIn 7 days (A + B) do = 7(3 + 2) = 35

 C finishes remaining work in 10 days.

 C's 1 day work = $\frac{25}{10} = \frac{5}{2}$ units

 C finish the complete work in $\frac{60}{\frac{5}{2}} = 24$ days
- 38. (1) Speed of A, B and C $= \frac{1000}{5}, \frac{1000}{8}, \frac{1000}{10}$ = 200 m/min, 125 m/min, 100 m/minDistance travelled by B and C before A starts = 125, 200 metres
 Time taken by A to meet B and C

 $=\frac{125}{200-125}, \frac{200}{200-100}=\frac{5}{3} \min, 2 \min.$

39. (3)
$$n - \frac{n}{2} - \frac{n}{4} - \frac{n}{5} = 7$$

$$\frac{20n - 10n - 5n - 4n}{20} = 7$$

$$n = 7 \times 20 = 140$$
The value of n is 140

By using Pythagoras theorem $AC^2 = AB^2 + BC^2$ $AC^2 = 12^2 + 5^2$ $AC^2 = 144 + 25$ AC = 13Area of $\triangle ABC = \frac{1}{2}AB \times BC = \frac{1}{2}P \times AC$ $AB \times BC = P \times AC$ $12 \times 5 = P \times 13$ $P = \frac{60}{13} = 4\frac{8}{13}$

41. (5) Mimicry shows held in city
$$M = 0.9$$

Drama shows held in city $O = 12$
 $x \%$ of $12 = 0.9$

$$\Rightarrow 12 \times \frac{x}{100} = 0.9 \Rightarrow x = \frac{0.9 \times 100}{12} = 7.5\%$$
12. (1) Average number of entertainment shows h

2

- 42. (1) Average number of entertainment shows held in city $P = \frac{11.3 + 6 + 18 + 1 + 1.5}{5} = 7.56$ $\Rightarrow 7.56 \times 100 = 756$
- 43. (2) Music shows in city N and Q = $(13 + 12.4) \ 100 = 2540$ Increases by $5\% = 2540 \times \frac{105}{100} = 2667$
- 44. (4) Dance shows held in city N = $12.4 \times 100 = 1240$ Drama shows held in city R = $9.8 \times 100 = 980$ Ratio = $\frac{1240}{980} = 62:49$
- **45.** (3) Total number of standup comedy shows held in all the cities together $= (0.8 + 2 + 0.3 + 1 + 3 + 0.7) \times 100$ $= 7.8 \times 100 = 780$
- **46.** (1) Req. % increase $=\frac{(5-2)}{2} \times 100 = 150\%$
- 47. (4) Req. % = $\frac{6}{(3+5+6)} \times 100 = 42\frac{6}{7}$ %
- **48.** (5) Req. expenditure = 14 6 = 78 lakhs
- **49.** (1) Req. increase $=\frac{(3-2)}{2} \times 100 = 50$
- **50.** (4) Profit made by company C in the year 2013 is not given.
- **51.** (3) Req. number $=\frac{22}{100} \times 1050 = 231$
- 52. (1) Req. answer = (16 + 20) % of 2450 - (16 + 20) % of 1050= $\frac{36}{100} \times 2450 - \frac{36}{100} \times 1050 = 882 - 378 = 504$

53. (2) Req. ratio =
$$\left(\frac{30}{100} \times 2450\right) : \left(\frac{24}{100} \times 1050\right) = 35:12$$

54. (1) Req. % =
$$\frac{\frac{18}{100} \times 1050}{\frac{10}{100} \times 2450} \times 100 \approx 77:14$$

- **55.** (5) Req. answer = (20 + 30) % of 2450 = 1225
- 56. (1) $5x^2 + 6x + 1 < 0$ $\Rightarrow 6x^2 + 3x + 2x + 1 < 0$ $\Rightarrow (2x + 1)(3x + 1) < 0$ $\Rightarrow \left(x + \frac{1}{2}\right)\left(x + \frac{1}{3}\right) < 0 \Rightarrow -\frac{1}{2} < x - \frac{1}{3}$

RACE

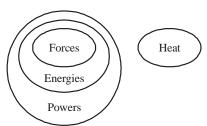
- 57. (5) From equation I: $x^2 = 9 \Rightarrow x = \sqrt{9} = \pm 3$ From equation II: $y^2 + 8y + (4)^2 = 0$ $\Rightarrow (y + 4)^2 = 0$ $\Rightarrow y = -4$ $\therefore x > y$
- 58. (1) From equation I: $4x^2 + 12x 2x 6 = 0$ $\Rightarrow 4x(x + 3) - 2(x + 3) = 0$ $\Rightarrow (4x - 2)(x + 3) = 0$ $\therefore x = -3 \text{ or } \frac{1}{2}$ From equation II: $y^2 - 5y + 6 = 0$ $\Rightarrow (y - 3)(y - 2) = 0$ $\Rightarrow y = 3 \text{ or } 2$ $\therefore y > x$ Hence, x < y.
- 59. (3) $\pi r^2 \times 72 = \frac{4}{3} \pi \times (6)^3 \left[\therefore \text{ Volume remains cons tan t} \right]$ [Volume of hire = $\pi r^2 h$] $\Rightarrow r^2 = 4 \Rightarrow r = 2 \text{ cm}.$
- 60. (5) Area of rhombus $=\frac{1}{2} \times 3x \times 4x = 6x^2$ Square of the shorter diagonal $= 3x = 9x^2$ \therefore Req. ratio $=\frac{6x^2}{9x^2} = \frac{2}{3}$
- 61. (1) Suppose cost price = ₹ 100 ∴ Marked price ₹ 130 After 20% discount, selling price =130×\frac{80}{100} = Rs.104
- ∴ Profit percentage = $\frac{104-100}{100} \times 100 = 4\%$ 62. (1) $(41)^2 + (8)^2 - (22)^2 = x$
- $\Rightarrow 1681 + 64 484 = x$ $\Rightarrow x = 1261 \approx 1280.$ 63. (3) $\frac{40}{100} \times 600 250 = x \frac{77}{100} \times 910$
 - $\Rightarrow 240 250 = x 77 \times 9$ $\Rightarrow x = 683 \approx 700$
- 64. (2) $\frac{52000}{60} \times \frac{29}{41} = x \Rightarrow x = 600 \text{ (approx.)}$
- 65. (3) $\frac{700}{52} \times \frac{700}{11} \times \frac{112}{107} = 896 \approx 900.$
- **66.** (2) According to the statements, venn diagram is as follow



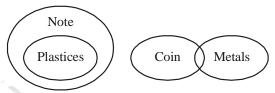
Conclusions: I. ★ II. ✓
Hence, only Conclusions II follows from the given statements.

67-68. According to the statements, venn diagram is as follow

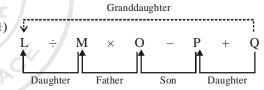
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- **67.** (2) Conclusions: I. × II. ✓ Hence, only Conclusions II follows from the given statements.
- **68.** (1) **Conclusions:** I. ✓ II. × Hence, only Conclusions I follows from the given statements.
- **69-70.** According to the statements, venn diagram is as follow

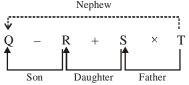


- **69.** (1) **Conclusions:** I. ✓ II. × Hence, only Conclusions I follows from the given statements.
- **70.** (1) Conclusions: I. ✓ II. × Hence, only Conclusions I follows from the given statements.



From the above figure, it is clear that L is granddaughter of Q.

72. (3) On putting sign (–) in place of question mark (?)



From the above figure, it is clear that Q is the nephew of T.

73. (5) Son Father Wife Son Hence, none is true.

74-79.

Name	Firm	Week off	Profession	City
Α	Government	Monday	Doctor	Chennai
В	Government	Friday	Engineer	Bangalore
С	Government	Tuesday	Pharmacist	Hyderabad
D	Private	Thursday	Lawyer	Mumbai/Jai pur
Е	Private	Wednesday	Counselor	Jaipur/Mumbai



(1) From I : rut a ab \rightarrow clean clear home ...(i) ta ha na \rightarrow home is beautiful ...(ii)

From I and II : home \rightarrow ta

From II : tu ma abo \rightarrow flowers are white ...(iii) ea ta qa \rightarrow clean sheets shades ...(iv)

From III : ru qa mo → nice clear sheets ...(v) abo ha qi → white deep light ...(vi)

From I and III: using eqns (i) and (v) $ru \rightarrow clear$

(1) From I

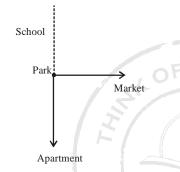


From II N and O are brothers of S.

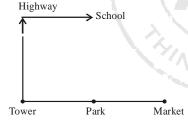
From III There is only couple and T has only one daughter out of 3 children.

From III There are five persons in the family.

(2) From I **82.**



From II



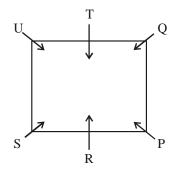
And distances are not given.

From I and II school is north direction from park.

83. (2) From I, S is not at opposite of P. P is on the left of Q. R and T are sitting exactly opposite to each other. From II, when P and U exchange their seats. P becomes beside and left of T.

> From III, when P and T exchange their seats, and then T is on the immediate and then T is no the immediate left of R.

From I and II



84-88.

Monday - Mathematics Tuesday - Psychology Wednesday - Chemistry Thursday - Computer Friday - Biology Saturday - Physics Sunday - English

84. (5) 86.

(3) (3)

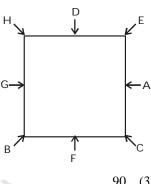
88.

89-93.

(2)

91.

94-98.



90. (3)

85. (1)

87. (1)

(4) 92. (5) 93. (3)

Environmental information is here \rightarrow tu fa lic li

...(i) Here read given important \rightarrow pi sa uic fa ...(ii) Awareness is necessarily important \rightarrow uic hi li no

...(iii)

Necessarily given environmental questions

 \rightarrow xo lic pi hi ...(iv)

From (i) and (ii) here \rightarrow fa ...(v)

From (ii) and (iii) important \rightarrow uic ...(vi)

From (i) and (iii) is \rightarrow li ...(vii)

From (iii) and (iv) necessarily \rightarrow hi ...(viii)

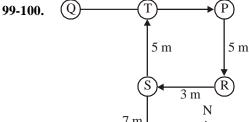
From (ii) and (iv) given \rightarrow pi ...(ix) From (ii), (v), (vi) and (ix) read \rightarrow sa ...(x)

From (i) and (iv) environmental \rightarrow lic ...(xi)

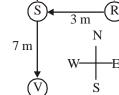
From (iv), (viii), (ix) and (xi) questions \rightarrow xo ...(xii)

From (iii), (vi), (vii) and (viii) awareness \rightarrow no ...(xiii)

From (i), (v), (vii) and (xi) information \rightarrow tu ...(xiv)



9 m



- (4) If a person walks in a straight line for 8 m towards West from Point R, then he would be cross S.
- **100.** (5) S, V, T are in straight line.